

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS



CQ-DFX666LEN
CQ-DFX777LEN
CQ-DFX888LEN
CQ-DFX444LEN/GLEN
CQ-RDP200LEN
CQ-RDP210LEN

High-Power CD Player / RDS Receiver
with Changer Control

Subject : SERVO CIRCUIT CHANGE

Please file and use this manual together with the service manual for model listed above.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "A" or "B" marks in remarks column are indicated as follows :
 - A : CQ-DFX600N
 - B : CQ-DFX400N

1.1. IC's and Transistors

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC101	C1BB00000173	IC	
IC201	MN662748RPMF	IC	
IC401	MN101C117AF	IC	
IC601	C0GBY00000004	IC	
IC901	C0GBY00000003	IC	
Q1	YEADPS1101W	Transistor	
Q3	YEADPS1101W	Transistor	
Q6	YEADPS1101W	Transistor	
Q101	2SB766ATX	Transistor	
Q451	YEANC113ZKTX	Transistor	

1.2. Diodes

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEADAN1102W	Diode	
D3	YEADAN1102W	Diode	
D6	YEADAN1102W	Diode	
D201	YEAD1SS355T1	Diode	
D401	MA151WKTX	Diode	
D601	YEAD1SS355T1	Diode	

1.3. Capacitors

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
C101	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C102	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C103	F3H0J1070005	Tantalum, 100 μ F 6.3WV	
C104	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C105	ECSH0JY475CR	Tantalum, 4.7 μ F 6.3WV	
C106	F1H1E273A011	Ceramic, 0.027 μ F 25WV	
C107	F1H1H152A201	Ceramic, 0.0015 μ F 50WV	
C108	YECUZ1H472KX	Ceramic, 0.0047 μ F 50WV	
C109	YECUZ1H102KX	Ceramic, 0.001 μ F 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C110	YECUZ1H102KX	Ceramic, 0.001 μ F 50WV	
C111	YECSW1A106MA	Tantalum, 10 μ F 10WV	
C112	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C113	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C115	YECUZ1H102KX	Ceramic, 0.001 μ F 50WV	
C116	YECUZ1H102KX	Ceramic, 0.001 μ F 50WV	
C117	YECUS1A105KX	Ceramic, 1 μ F 10WV	
C118	YECUZ1H471KX	Ceramic, 470PF 50WV	
C119	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C120	YECUZ1H561KX	Ceramic, 560PF 50WV	
C121	YECUZ1E123KX	Ceramic, 0.012 μ F 25WV	
C122	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C133	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C145	YECUZ1A124KX	Ceramic, 0.12 μ F 10WV	
C201	YECUZ1E123KX	Ceramic, 0.012 μ F 25WV	
C203	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C204	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C205	YECSW1A106MA	Tantalum, 10 μ F 10WV	
C206	F1H1A4740004	Ceramic, 0.47 μ F 10WV	
C208	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C209	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C210	YECSW1A106MA	Tantalum, 10 μ F 10WV	
C214	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C451	F1H1A4740004	Ceramic, 0.47 μ F 10WV	
C453	YECUZ1H103KX	Ceramic, 0.01 μ F 50WV	
C601	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C602	ECEV1CA470SP	Electrolytic, 47 μ F 16WV	
C603	YECUZ1C104KX	Ceramic, 0.1 μ F 16WV	
C605	YECUS1A105KX	Ceramic, 1 μ F 10WV	
C901	YECUS1C334KX	Ceramic, 0.33 μ F 16WV	
C903	YECUZ1C333KX	Ceramic, 0.033 μ F 16WV	

1.4. Resistors

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
J401	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
J429	ERJ3GEY0R00V	Chip, 0 Ω 1/16W	
L451	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R101	ERJ3GEYJ101V	Chip, 100 Ω 1/16W	
R102	ERJ14YJ330H	Chip, 33 Ω 1/4W	
R103	ERJ3GEYJ683V	Chip, 68k Ω 1/16W	
R104	ERJ3GEYJ683V	Chip, 68k Ω 1/16W	
R105	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R106	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R107	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R108	ERJ3GEYJ823V	Chip, 82k Ω 1/16W	
R109	ERJ3GEYJ334V	Chip, 330k Ω 1/16W	
R110	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R111	ERJ3GEYJ102V	Chip, 1k Ω 1/16W	
R112	ERJ3GEYJ393V	Chip, 39k Ω 1/16W	
R113	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R114	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R119	ERJ3GEYJ184V	Chip, 180k Ω 1/16W	
R120	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R147	ERJ3GEYJ153V	Chip, 15k Ω 1/16W	
R207	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R208	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R209	ERJ3GEYJ391V	Chip, 390 Ω 1/16W	
R210	ERJ3GEYJ334V	Chip, 330k Ω 1/16W	
R211	ERJ3GEYJ124V	Chip, 120k Ω 1/16W	
R213	ERJ3GEYJ470V	Chip, 47 Ω 1/16W	
R214	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R215	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R401	ERJ3GEYJ563V	Chip, 56k Ω 1/16W	
R402	ERJ3GEYJ563V	Chip, 56k Ω 1/16W	
R404	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R411	ERJ3GEYJ334V	Chip, 330k Ω 1/16W	
R454	ERJ6GEYJ271	Chip, 270 Ω 1/10W	
R456	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R461	ERJ3GEYJ823V	Chip, 82k Ω 1/16W	
R463	ERJ3GEYJ823V	Chip, 82k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R466	ERJ3GEYJ823V	Chip, 82k Ω 1/16W	
R471	ERJ8GEYJ121V	Chip, 120 Ω 1/8W	
R473	ERJ8GEYJ121V	Chip, 120 Ω 1/8W	
R476	ERJ8GEYJ121V	Chip, 120 Ω 1/8W	
R481	ERJ3GEYJ104V	Chip, 100k Ω 1/16W	
R601	ERJ3GEYJ123V	Chip, 12k Ω 1/16W	
R602	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R603	ERJ3GEYJ273V	Chip, 27k Ω 1/16W	
R604	ERJ3GEYJ124V	Chip, 120k Ω 1/16W	
R605	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R606	ERJ3GEYJ822V	Chip, 8.2k Ω 1/16W	
R607	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R608	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R609	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R610	ERJ3GEYJ472V	Chip, 4.7k Ω 1/16W	
R613	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	
R901	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R902	ERJ3GEYJ333V	Chip, 33k Ω 1/16W	
R903	ERJ3GEYJ122V	Chip, 1.2k Ω 1/16W	

1.5. Connectors

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN101	YEAESFW15R2E	Connector, 15P	
CN402	K1MN14B00028	Connector, 14P	
CN901	K1MN05B00010	Connector, 5P	
CN902	K1MN05B00009	Connector, 5P	

2.1. CD Servo Block (Top View)





3 SCHEMATIC DIAGRAM

3.1. CD Servo Block

